



**SDI Review Form 1.6**

Journal Name:	<a href="#">Annual Research &amp; Review in Biology</a>
Manuscript Number:	2013_ARRB_7229
Title of the Manuscript:	Initial insight to effect of exercise on maximum pressure in the aortic root using 2D fluid-structure interaction model
Type of the Article	Original Research Article

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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**PART 1: Review Comments**

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Compulsory</b> REVISION comments	<p>In relation to the manuscript entitled "Initial insight to effect of exercise on maximum pressure in the aortic root using 2D fluid-structure interaction model"</p> <p>I think it is a very interesting research for estimation of the maximum pressure in the left ventricle for a healthy subject based on cardiac outputs measured by echo-Doppler (non-invasive) and catheterization (invasive) techniques at rest and during exercise.</p> <ol style="list-style-type: none"> <li>1) I recommend the authors to correct the typographical errors such as " Doppler ECG" to Doppler ECHO", "aproximateed" to approximated, "practise" to practice, and "para-sternal" to parasternal.</li> <li>2) Also, try to choose a correction factor to approximate the non-invasive cardiac output-based Doppler, aortic diastolic pressure-based Doppler and ventricular systolic pressure-based Doppler to invasive Fick-based predictions, which is likely the most applicable method in the clinical practice.</li> </ol>	<ol style="list-style-type: none"> <li>1) The typographical errors were corrected.</li> <li>2) The correction percentages were added (see line 222).</li> </ol>
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments		